

**Membrane** contamination prevention in separation-concentration process

L20 ANSWER 11 OF 121 HCA COPYRIGHT 2002 ACS  
AN 95:135038 HCA

FAMILY 5

PA Daicel Chemical Industries, Ltd., Japan  
SO Jpn. Tokkyo Koho, 5 pp.

CODEN: JAXXAD

DT Patent

LA Japanese

FAN.CNT 1

|    | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|----|--|------|----------|-----------------|----------|
| PI | JP 56015924  | B4   | 19810413 | JP 1974-15703   | 19740207 |
| AB | In sepn.-concn. processes using reverse-osmosis or ultrafiltration membranes, the liq. to be treated is fed as a <b>gas</b> -liq. mixed flow to the surface of the membrane. This <b>decreases</b> the <b>membrane contamination</b> . Thus, aq. 0.5% albumin soln. was passed through a reverse osmosis <b>membrane</b> app. under gas blowing. The aq. soln. feed rate and the gas blowing were controlled at 450 and 15 L/h, resp. The water permeation rate through the <b>membrane</b> was 1.05 and 0.8 m <sup>3</sup> /m <sup>2</sup> day initially and after 4 h, resp. |      |          |                 |          |